

Ziegler, Karl.
NEW CATALYSTS FOR POLYMERIZATION OF
PROPYLENE. Jan 64.
Order from RIS \$21.00
Polyolefins Set \$750.00

RIS-96593

Trans. of Belgian patent 544 576, by Montecatini
S.O. p.l., Dec 55. (Abstract available)

DESCRIPTORS: *Polyethylene plastics, *Propenes,
Polymerization, Metallocenic compounds, *Ziegler
catalysts, *Aluminums compounds, Alkyl radicals,
*Iron compounds,

The polymerization process is carried out with
catalysts obtained by reaction of iron compounds with
aluminum-organic compounds. (RIS abstract)

(Materials--Plastics, TT, v. 11, no. 11)

TT-64-13496

I. Ziegler, K.
II. Patent (Belgium) 544 576
III. RIS-96593
IV. Research Information
Service, New York

521523

Office of Technical Services

Ziegler, Karl.
PROCESS AND APPARATUS FOR THE PRODUCTION
OF DIALKYLALUMINUM HYDRIDES AND TRIALKYL-
ALUMINUMS [Procédé et Dispositif pour la Fabrication
d'Hydrures d'Aluminium Dialcoyles et d'Aluminium
Trialkoyles]. Jan 64 [25p]
Order from RIS \$45.00 RIS-96644
Metal Organica Set \$200.00

Trans. of Belgian patent 546 432, Mar 56. (Abstract
available)

DESCRIPTORS: *Metalorganic compounds, *Ziegler
catalysts, *Aluminum compounds, Alkyl radicals,
Propyl radicals, Ethyl radicals, Hydrides, Synthesis
(Chemistry).

Aluminum is heated with a trialkylaluminum and hydro-
gen under a pressure above 20 atm, and the resulting
(Chemistry--Organic, TT, v. 11, no. 11) (over)

TT-64-12476

- I. Ziegler, K.
- II. Patent (Belgium) 546 432
- III. RIS-96644
- IV. Research Information
Service, New York

1880827

Office of Technical Services

Ziegler, Karl.
PROCESS FOR REGULATING THE MOLECULAR
WEIGHT OF SUBSTANTIALLY LINEAR HIGHLY
CRYSTALLINE HEAD-TO-TAIL OLEFIN POLYMERS.
Jan 64.

Order from RIS \$27.00

Polyolefine Set \$750.00

RIS-96733

Trans. of Belgian patent 549 638, by Montecatini,
Milan, Jul 54.

DESCRIPTORS: *Polyethylene plastics, *Alumens,
Polymerization, Metallocene compounds, *Ziegler
catalysts, *Alumene compounds, Alkyl radicals,

(Materials--Plastics, TT, v. 11, no. 11)

TT-64-12499

- I. Ziegler, K.
- II. Patent (Belgium) 549 638
- III. RIS-96733
- IV. Research Information
Service, New York

1180628

Office of Technical Services

Ziegler, Karl.
PROCESS FOR PRODUCING HIGH-FUSING POLYMERS
OF BRANCHED CHAIN α -OLEFINS. Jan 64.
Order from RIS \$28.00 RIS-96751
Polyolefins Set \$750.00

Trans. of Belgian patent 549 891, by Montecatini,
Milan, Jul 56. (Abstract available)

DESCRIPTORS: *Polyethylene plastics, *Alkenes,
Polymerization, Metalorganic compounds, *Ziegler
catalysts.

New high-molecular weight, linear polymers of very
high mechanical strength and solvent resistance whose
melting points rise in inverse proportion to the length
of the fundamental monomer chain and in direct propor-
tion to the proximity of branching to the terminal double
bond are obtained from branched-chain α -olefins with
Ziegler catalysts. These polymers have considerably
(Materials--Plastics, TT, v. 11, no. 11) (over)

TT-64-12497

I. Ziegler, K.
II. Patent (Belgium) 549 891
III. RIS-96751
IV. Research Information
Service, New York

1280829

Office of Technical Services

Ziegler, Karl.
PROCESS FOR PRODUCTION OF LINEAR POLYMERS
OF AROMATIC VINYL HYDROCARBONS. Jan 64.
Order from RIS \$38.00
Hydrocarbons Set \$75.00
RIS-94650

Trans. of Belgian patent 535 252, by Montecatini,
Milan, Feb 57. (Abstract available)

DESCRIPTORS: *Styrene plastics, *Vinyl plastics,
Styrenes, Vinyl radicals, Polymerization, Metal-
organic compounds, *Ziegler catalysts.

Ziegler catalysts are used to polymerize styrenes sub-
stituted in the nucleus with one or more low alkyl groups
of halogen atoms, as well as certain polynuclear
aromatic vinyl hydrocarbons, into isotactic products
very different from the polymers of the same monomers
obtained by a radical mechanism. Also obtained are
crystalline high copolymers from dimethylstyrene
mixtures. (RIS abstract)

TT-44-12580

I. Ziegler, K.
II. Facout (Belgium) 535 252
III. RIS-94650
IV. Research Information
Service, New York

1260836

(Materials--Plastics,
TT, v. 11, no. 11)
Office of Technical Services

Ziegler, Karl.
TRUE HIGH-MOLECULAR WEIGHT. LINEAR OLEFIN
COPOLYMERS AND PROCESS FOR THEIR PRODUCTION. Jan 64.
Order from RIS \$55.00
Polyolefins Set \$750.00

RIS-96848

Trans. of Belgian patent 553 655, by Moncecchini,
Milan, Dec 56. (Abstract available)

DESCRIPTORS: *Polyethylene plastics, Alkenes,
*Ethylenes, *Propenes, *Butenes, *Pentenes,
*Hexenes, Copolymerization, Metalorganic compounds,
*Ziegler catalysts.

A process for obtaining true copolymers of ethylene
with propylene, *n*-butene, *n*-pentene or *n*-hexene with
the use of a type catalyst which leads to formation of
predominantly non-crystalline polymers when used in
the production of homopolymers of *n*-olefins. The
(Materials--Plastics, TT, v. 11, no. 11) (over)

TT-64-12501

- I. Ziegler, K.
- II. Patent (Belgium) 553 655
- III. RIS-96848
- IV. Research Information
Service, New York

1280835

Office of Technical Services

Ziegler, Karl.
BLOCK POLYMERS OF α -OLEFINS AND PROCESS
FOR THEIR PRODUCTION. Jan 64.
Order from RIS \$40.00
Polyolefins Set \$750.00

RIS-96752

Trans. of Belgian patent 550 093, by Montecatini,
Milan, Aug 56. (Abstract available)

DESCRIPTORS: *Polyethylene plastics, *Plastic films,
*Block polymers, *Alkenes, Polymerization, Solvents,

Block polymers of extraordinary elasticity and high
tensile strength attributable to the presence of both iso-
tactic and non-isotactic portions in the macromolecule
are obtained by treating certain polyolefin fractions of
intermediate solubility with special solvents. These
products yield superior films and sheets when mixed
with highly crystalline polyolefins of lower elasticity.
(RIS abstract)

(Materials--Plastics, TT, v. 11, no. 11)

TT-64-12498

I. Ziegler, K.
II. Patent (Belgium) 550 093
III. RIS-96752
IV. Research Information
Service, New York

1280830

Office of Technical Services

Ziegler, Karl.

PROCESS FOR IMPROVING THE MECHANICAL
PROPERTIES AND PROCESSING CHARACTERISTICS
OF LINEAR HIGH POLYMERS OF PROPYLENE.

Jan 64.

Order from RIS \$30.00

RIS-96844

Polyolefins Set \$750.00

Trans. of Belgian patent: 533 174, by Montecatini,
Milan, Dec 56. (Abstract available)

DESCRIPTORS: *Polyethylene plastics, *Propenes,
Pyrolysis, Mechanical properties, Processing.

Linear, crystallizable, head-to-tail polymers of
propylene with an intrinsic viscosity of about 2 that are
to be used in the manufacture of products by forming
operations involving heating are subjected to thermal
degradation to an intrinsic viscosity of 0.8 to 1.5.
Products treated in this way exhibit mechanical proper-
(Materials--Plastics, TT, v. 11, no. 11) (over)

TT-64-12521

- I. Ziegler, K.
- II. Patent (Belgium) 533 174
- III. RIS-96844
- IV. Research Information
Service, New York

880833

Office of Technical Services

Ziegler, Karl.
PROCESS FOR PRODUCING PREDOMINANTLY
AMORPHOUS POLY- α -BUTENE. Jan 64.
Order from RIS \$21.00 RIS-96900
Polyolefins Set \$750.00

Trans. of Belgian patent 557 853, by Montecatini,
Milan, May 57. (Abstract available)

DESCRIPTORS: *Polyethylene plastics, *Butenes,
Polymerization, Metalorganic compounds, *Ziegler
catalysts,

Predominantly amorphous linear high polymers of
 α -olefins are obtained without formation of large propor-
tions of oleaginous polymers and without costly catalysts
by addition to the catalyst of a certain inert, finely
divided substance. (RIS abstract)

(Materials--Plastics, TT, v. 11, no. 11)

TT-64-12502

I. Ziegler, K.
II. Patent (Belgium) 557 853
III. RIS-96900
IV. Research Information
Service, New York

1280838

Office of Technical Services

Ziegler, Karl.

NEW CATALYST SYSTEM FOR PRODUCTION OF
LINEAR, HIGH-MOLECULAR WEIGHT POLYMERS OF
 α -OLEFINS. Jan 64.

Order from RIS \$42.00

RIS-96902

Polyolefins Set \$730.00

Trans. of Belgian patent 538 563, by Montecatini,
Milan, Jan 57. (Abstract available)

DESCRIPTORS: *Polyethylene plastics, *Alkynes,
Polymerization, Metalorganic compounds,
*Ziegler catalysts.

New catalyst compositions for amorphous, linear
polymers of α -olefins of higher molecular weights than
the polyolefins obtained with previous catalysts. Used
on granular supports they are well suited for continuous
polymerization. (RIS abstract)
(Materials--Plastics, TT, v. 11, no. 11)

TT-64-12503

I. Ziegler, K.

II. Patent (Belgium) 538 563

III. RIS-96902

IV. Research Information
Service, New York

1280839

Office of Technical Services

Ziegler, Karl.
THERMOPLASTIC COMPOUNDS WITH IMPROVED
PROPERTIES FROM POLYOLEFINS. Jan 64.
Order from RIS \$18.00 RIS-96909
Polyolefine Set \$750.00

Trans. of Belgian patent 560 523, by Montecatini,
Milan, Sep 57. (Abstract available)

DESCRIPTORS: *Polyethylene plastics, Thermoplastics,
Alkynes, Mixtures, *Plastic films,

A specified isotactic polyolefin mixture exhibiting
physical properties and machinability superior to those
of isotactic polypropylene alone and, for example,
yielding films of higher breaking strength. (RIS
abstract)

(Materials--Plastics, TT, v. 11, no. 11)

TT-64-12505

I. Ziegler, K.
II. Patent (Belgium) 560 523
III. RIS-96909
IV. Research Information
Service, New York

280841

Office of Technical Services

Ziegler, Karl.
PROCESS FOR DIMERIZATION OF OLEFINS, Jan 64.
Order from RIS \$27.00
Polyolefins Set \$750.00
RIS-96543

Trans. of French patent 1 050 286, Jan 54. (Abstract available)

DESCRIPTORS: *Petroleum, *Alkenes, Polymerization, Metalorganic compounds, *Ziegler catalysts, *Fuels, *Oxo process.

Straight-chain, branched, as well as cyclic olefins are dimerized or codimerized with the aid of new metal-organic polymerization promoters. The process is also applicable to mixtures of olefins with saturated or aromatic hydrocarbons and can be used to convert C₃-C₆ petroleum fractions into a mixture of hydrocarbons with 6-12 C atoms, suitable as motor fuels and as feed stock for the oxo-synthesis, respectively. (RIS abstract)

TT-64-12492

- I. Ziegler, K.
- II. Patent (France) 1 050 286
- III. RIS-96543
- IV. Research Information Service, New York

650846

(Chemistry--Organic,
TT, v. 11, no. 11)
Office of Technical Services

[Ziegler, Karl].

PROCESS FOR PRODUCING ALKYLALUMINUM
HYDRIDES [Verfahren zur Herstellung von Alkyl-
aluminiumhydriden]. Jan 64 (11p)
Order from RIS \$14.00 RIS-96252
Metal Organics Set \$200.00

Trans. of German patent appl. Z 2635, Feb 64.
(Abstract available)

DESCRIPTORS: *Metalorganic compounds, *Ziegler
catalysts, *Aluminum compounds, Alkyl radicals,
Hydrides, Synthesis (Chemistry).

An advantageous two-stage process employing the reac-
tion of alkylaluminum dihalides or dialkylaluminum
monohalides and alkali hydrides. (RIS abstract)

(Chemistry--Organic, TT, v. 11, no. 11)

TT-64-12463

- I. Ziegler, K.
- II. Patent application
(Germany) Z 2635
- III. RIS-96252
- IV. Research Information
Service, New York

260854

Office of Technical Services

[Ziegler, Karl].
PROCESS FOR PRODUCING SODIUM CYCLO-
PENTADIENE, SODIUM ALKYL AND SODIUM BENZYL
CYCLOPENTADIENES [Verfahren zur Herstellung von
Natriumcyclopentadien, Natriumalkyl- und Natrium-
benzylcyclopentadiene]. Jan 64 [14p]
Order from RIS \$17.50 RIS-96253
Metal Organics Set \$200.00

Trans. of German patent appl. Z 2636, Jul 54.
(Abstract available)

DESCRIPTORS: *Metalorganic compounds, *Cyclo-
pentadiene, *Sodium compounds, Alkyl radicals, Benzyl
radicals, Synthesis (Chemistry)

Convenient manufacturing procedures for producing
sodium cyclopentadiene from cyclopentadiene and
metallic sodium or certain sodium compounds, and for
converting, analogously, alkylated cyclopentadienes into
their sodium compounds. (RIS abstract)

TT-64-12464

- I. Ziegler, K.
- II. Patent application
(Germany) Z 2636
- III. RIS-96253
- IV. Research Information
Service, New York

00855

(Chemistry--Organic,
TT, v. 11, no. 11)
Office of Technical Services

Ziegler, Karl.
PROCESS FOR PRODUCTION OF HYDROCARBON
ALUMINUMS. Jan 64.
Order from RIS \$12.00 RIS-96505
Metal Organics Set \$200.00

Trans. of German patent appl. Z 3509, 5 May 55.
(Abstract available)

DESCRIPTORS: *Metalorganic compounds, *Ziegler
catalysts, *Aluminum compounds, Hydrocarbons,
Alkyl radicals, *Fluorides, Alkali metal compounds,
*Cryolite.

Cryolite of the solid phase is converted to aluminum
fluoride by treatment with alkyl or arylaluminum
halides. (RIS abstract)

(Chemistry--Organic, TT, v. 11, no. 11)

TT-64-12481

- I. Ziegler, K.
- II. Patent application
(Germany) Z 3509
- III. RIS-96505
- IV. Research Information
Service, New York

1280857

Office of Technical Services

Ziegler, Karl.
PROCESS FOR PRODUCING DIALKYLALUMINUM
HYDRIDES. Jan 64.
Order from RIS \$15.50 RIS-96483
Metal Organics Set \$200.00

Trans. of German patent appl. Z 4369, Nov 55.
(Abstract available)

DESCRIPTORS: *Metalorganic compounds, *Ziegler
catalysts, *Aluminum compounds, Alkyl radicals,
*Hydrides, Synthesis (Chemistry).

The use of suitable catalysts and reaction conditions
makes it possible to obtain dialkylaluminum hydrides by
simple thermal cleavage of trialkylaluminums while
preventing decomposition of the product. (RIS abstract)

(Chemistry--Organic, TT, v. 11, no. 11)

TT-64-12474

I. Ziegler, K.
II. Patent (Germany) Z 4369
III. RIS-96483
IV. Research Information
Service, New York

1050859

Office of Technical Services

Ziegler, Karl.

PROCESS FOR PRODUCTION OF VOLATILE
POLYMERS OF ETHYLENE. Jan 64.

Order from RIS \$12.50

RIS-96833

Polyolefins Set \$750.00

Trans. of German patent appl. Z 4357, Nov 57.
(Abstract available)

DESCRIPTORS: *Butenes, *Hexenes, Synthesis
(Chemistry), *Ethylenes, Polymerization, Metal-
organic compounds, *Ziegler catalysts, *Aluminum
compounds, Alkyl radicals, *Titanium compounds,
*Zirconium compounds.

Ethylene is polymerized with catalysts consisting of
mixtures of trialkylaluminums with esters of titan-
ic or zirconic acid to produce volatile polymers that consist
primarily of butene but contain hexene and its
homologs as well. (RIS abstract)
(Chemistry--Organic, TT, v. 11, no. 11)

TT-64-12523

- I. Ziegler, K.
- II. Patent application
(Germany) Z 4357
- III. RIS-96833
- IV. Research Information
Service, New York

1260859

Office of Technical Services

Ziegler, Karl.
NEW METHYLENE COMPOUNDS OF LITHIUM AND
MAGNESIUM. Jan 64.
Order from RIS \$12.75 RIS-96595
Metal Organics Set \$200.00

Trans. of German patent appl. Z 4846, 23 Aug 56.
(Abstract available)

DESCRIPTORS: *Metalorganic compounds, *Ziegler
catalysts, *Lithium compounds, *Magnesium com-
pounds, *Methylene, Synthesis (Chemistry).

Methylolithium or dimethylmagnesium is heated in the
absence of air to form new methylene compounds of
lithium and magnesium that are highly effective
catalysts for the polymerization of ethylene. (RIS
abstract)

(Chemistry--Organic, TT, v. 11, no. 11)

TT-64-12480

- I. Ziegler, K.
- II. Patent application
(Germany) Z 4846
- III. RIS-96595
- IV. Research Information
Service, New York

1260860

Office of Technical Services

Ziegler, Karl and Geilert, Hans-Georg.
PROCESS FOR THE PREPARATION OF ORGANO
ALUMINUM COMPOUNDS. [1964] 17p
Order from OTS, SLA, or BTC \$1.60 TT-64-14904

Trans. of German patent application Z 2679 120, 26/03,
13 May 52.

TT-64-14904

- I. Ziegler, K.
- II. Geilert, H.-G.
- III. Patent application
(Germany) Z 2679

1280862

(Chemistry--Organic, TT, v. 11, no. 11)

Office of Technical Services

Ziegler, Karl.
PROCESS FOR PRODUCING TRIALKYLALUMINUMS.
Jan 64.
Order from RIS \$13.25 RIS-96871
Metal Organics Set \$200.00

Trans. of German DAS 1 008 733, May 57, appl. Z 4190.
(Abstract available)

DESCRIPTORS: *Metalorganic compounds, *Ziegler
catalysts, *Aluminum compounds, Alkyl radicals,
Synthesis (Chemistry).

The reaction of aluminum, olefins and hydrogen in the
presence of dialkylaluminum halide catalysts is im-
proved by dividing the preparation of the catalysts and
the principal reaction into two successive stages. (RIS
abstract)

(Chemistry--Organic, TT, v. 11, no. 11)

TT-64-12477

I. Ziegler, K.
II. Patent (Germany) 1 008 733
III. RIS-96871
IV. Research Information
Service, New York

W. 00863

Office of Technical Services

[Ziegler, Karl].
ACTIVATION OF OLEFIN POLYMERIZATION BY
METAL-ORGANIC COMPOUNDS [Verfahren zur
Polymerisation und Mischpolymerisation von
Olefinen]. Jan 64 [74p]
Order from RIS \$35.00 RIS-96262
Polyolefins Set \$750.00

Trans. of German patent 878 560, Apr 53. (Abstract
available)

DESCRIPTORS: *Polyethylene plastics, *Alkenes,
Polymerization, Metalorganic compounds, *Ziegler
catalysts, *Beryllium compounds, *Aluminum com-
pounds, *Gallium compounds, *Indium compounds,
Hydrides.

Beryllium, aluminum, gallium or indium hydrides or
compounds of these metals with saturated aliphatic or
aromatic organic radicals are used to activate poly-
(Materials--Plastics, TT, v. 11, no. 11) (over)

TT-64-12463

- I. Ziegler, K.
- II. Patent (Germany)
878 560
- III. RIS-96262
- IV. Research Information
Service, New York

1080871

Office of Technical Services

Ziegler, Karl.
CONVERSION OF ETHYLENE INTO OLEFINIC
POLYMERS, Jan 64.
Order from RIS \$26.50 RIS-96482
Polyolefins Set \$750.00

Trans. of Italian patent 516 436, Feb 55. (Abstract
available)

DESCRIPTORS: *Polyethylene plastics, *Ethylenes,
Polymerization, Metalorganic compounds, *Ziegler
catalysts, *Aluminum compounds, Alkyl radicals,
Nickel catalysts, Acetylenes,

A two-stage process for obtaining higher olefins from
ethylene by first forming higher alkylaluminums from
triethylaluminum and ethylene and then treating the
addition products with ethylene in the presence of
compounds of nickel and acetylene. (RIS abstract)

(Materials--Plastics, TT, v. 11, no. 11)

TT-64-12490

I. Ziegler, K.
II. Patent (Italy) 516 436
III. RIS-96482
IV. Research Information
Service, New York

1260872

Office of Technical Services

Ziegler, Karl.
PROCESS FOR CATALYTIC POLYMERIZATION OF
ETHYLENE TO BUTENE, HEXENE AND OTHER
HOMOLOGS. Jan 64.
Order from RIS \$21.00 RIS-96481
Polyolefins Ser \$750.00

Trans. of Italian patent 521 521, Mar 55. (Abstract
available)

DESCRIPTORS: *Butenes, *Hexenes, Synthesis
(Chemistry), *Ethylenes, Polymerization, Metal-
organic compounds, *Ziegler catalysts, *Aluminum
compounds, Alkyl radicals,

Co-catalysts added to the principal catalyst, which may
be alkylaluminum, make it easy to obtain almost ex-
clusively α -butylene or its higher homologs from
ethylene at temperatures under 100°C. At 100-120°C
(Chemistry--Organic, TT, v. 11, no. 11) (over)

TT-64-12489

I. Ziegler, K.
II. Patent (Italy) 521 521
III. RIS-96481
IV. Research Information
Service, New York

1280873

Office of Technical Services

Ziegler, Karl.

THE MULHEIM NORMAL PRESSURE POLYETHENE
PROCESS. [30 Sep 55] 15p.
Order from SLA \$1.60

62-16731

Trans. of German language article from Max Planck
Institute for Coal Research, Mülheim/Ruhr, Aug 55.

DESCRIPTORS: *Ethylenes, Polymerization, Pressure.

This paper tells the story of how the "normal pres-
sure polyethene process" happened to be discovered
at the Institute in Muelheim, for this discovery is a
matter of historical interest and merits preservation.
(Author)

(Chemistry--Organic, TT, v. 8, no. 5)

62-16731

1. Title: Mulheimer process
1. Ziegler, K.

C222685

Office of Technical Services

46,
53
Catalysis in the Polymerization of Unsaturated
Hydrocarbons by Organotin Compounds, by
K. Tiegler, L. Jochim, 24 pp.
Catalysis, part, Angewandte Chemie, Vol. 78, No. 21,
1966, pp. 47-64.
Parent Office

Sci - Chem
Sept 64

244,000

Ziegler, K[arl].
THE IMPORTANCE OF ALKALI METALLO-ORGANIC
COMPOUNDS FOR SYNTHESIS. [1963] 20p 33refs
Order from SLA \$1.60 TT-64-14708

Trans. of Angew[andte] Chem[ie] (Germany) 1936,
v. 49, no. 28, p. 455-460.
Another trans. is available from K-H \$20.00 as
K-H-3456-1 [1963] 20p.

(Chemistry--Organic, TT, v. 11, no. 12)

TT-64-14708

I. Ziegler, K.

883414

Office of Technical Services

Ziegler, Karl and Köster, Roland.
PROCESS FOR THE PREPARATION OF COMPLEX
COMPOUNDS FROM ALUMINUM ALKYLs AND
ALKALI FLUORIDES [Verfahren zur Herstellung von
Komplexverbindungen aus Aluminiumkohlenwasser-
stoffen und Alkalifluoriden]. [1955] [10p] 1 ref
Order from OTS, SLA, or ETC \$1.10 TT-64-14704

Trans. of German patent application Z 3584, 12 o,
26/03, filed 25 Jul 53, pub. 3 Feb 55, opposition until
3 May 55, supplement to patent 925,348.
Another trans. is available from RIS \$7.00 as
RIS-96259, 5p.

(Chemistry--Organic, TT, v. 11, no. 12)

TT-64-14704

- I. Ziegler, K.
- II. Köster, R.
- III. Patent application
(Germany) Z 3584
- IV. Patent (Germany)
925 348 suppl.

83314

Office of Technical Services

Ziegler, K[arl] and Gellert, H[ans]-G[eorge].
DETERMINATION OF THE "ACTIVITY" OF
ORGANOALUMINUM COMPOUNDS. Pt. 28 of Metal-
loorganic Compounds. [1961] 5p. 5 refs.
Order from SLA \$1.10 61-20451

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 629, no. 1/3, p. 20-22.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Alkyl radicals, Determination.

By "active" aluminorganic compounds we understand
Al trialkyls and Al dialkylhydrides. It is possible to
determine them analytically, beside the inactive types
of the REARER kind (which are formed, e.g., through
autoxidation), by a simple titration method as only the
active compounds are capable of fixing 1 mole of
ammonia. (Author) (See also 61-20450)
(Chemistry--Organic, TT, v. 7, no. 1)

61-20451

I. Ziegler, K.
II. Gellert, H.-G.
III. Title: Metalloorganic...

184258

Office of Technical Services

Ziegler, Karl, Gellert, Hans-Georg and others.
ALUMINUM TRIALKYLS AND DIALKYL ALUMINUM
HYDRIDES FROM OLEFINS, HYDROGEN, AND
ALUMINUM. Pt. 26 of Metalloorganic Compounds.

[1961] 26p. 35 refs.

Order from SLA \$2.60

61-20449

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 629 [no. 1/3] p. 1-13.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Hydrides, *Alkyl radicals, Synthesis,
*Ethylene, *Hydrogen, *Aluminum, Chemical
reactions.

(Chemistry--Organic, TT, v. 7, no. 1)

61-20449

- I. Ziegler, K.
- II. Gellert, H.-G.
- III. Title: Metalloorganic...

184256

Office of Technical Services

Ziegler, Karl, Gellert, Hans-Georg and others.
REACTIONS OF THE Al-C BOND WITH OLEFINS.
Pt. 34 of Metalloorganic Compounds. [1961] 74p.
50 refs.

Order from SLA \$7.60

61-20458

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 629, no. 1-3, p. 121-166.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Alkyl radicals, *Ethylenes, Chemical
reactions, Displacement reactions.

See also 61-20456

(Chemistry--Organic, TT, v. 7, no. 1)

61-20458

- I. Ziegler, K.
- II. Gellert, H.-G.
- III. Title: Metalloorganic...

184264

Office of Technical Services

Ziegler, Karl, Gellert, Hans-Georg and others.
SYNTHESIS OF STRAIGHT-CHAIN α -OLEFINS
FROM ETHYLENE. Pt. 36 of Metalloorganic Com-
pounds. [1961] 42p. 24 refs.
Order from SLA \$4.60

61-20460

Trans. of [Justus Liebigs] Annalen der Chemie (West
Germany) 1960, v. 629, no. 1/3, p. 172-198.

DESCRIPTORS: Metalorganic compounds, *Butenes,
Synthesis, *Ethylenes, *Aluminum compounds, *Alkyl
radicals, Chemical reactions, Displacement reactions,
Catalysts, Catalysis.

See also 60-20459

(Chemistry--Organic, TT, v. 7, no. 1)

61-20460

I. Ziegler, K.
II. Gellert, H.-G.
III. Title: Metalloorganic...

154266

Office of Technical Services

Ziegler, Karl, Koster, Roland and others.
NEW COMPLEX COMPOUNDS OF ALUMINUM
ALKYLS. Pt. 30 of Metalloorganic Compounds. [1961]
29p. 13 refs.

Order from SLA \$2.60

61-20453

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 629, no. 1/3, p. 33-49.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Alkyl radicals, Chemical reactions,
*Complex compounds, Synthesis.

See also 61-20452

(Chemistry--Organic, TT, v. 7, no. 1)

61-20453

I. Ziegler, K.
II. Koster, R.
III. Title: Metalloorganic...

184260

Office of Technical Services

Ziegler, Karl and Kroll, Wolf-Reiner.
DISPLACEMENT AND GROWTH REACTIONS IN
DIALKYL AL COMPOUNDS OF THE R_2AlX TYPE.
Pt. 35 of Metalloorganic Compounds. [1961] 8p.
4 refs.

Order from SLA \$1.10

61-20459

Trans. of [Justus Liebig's] Annalen der Chemie
(West Germany) [1960] v. 629, no. 1/3, p. 167-171.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Alkyl radicals, Displacement reactions.

See also 61-20458

(Chemistry--Organic, TT, v. 7, no. 1)

61-20459

I. Ziegler, K.
II. Kroll, W.-R.
III. Title: Metalloorganic...

184265

Office of Technical Services

Ziegler, Karl, Kroll, Wolf-Rainer and others.
DISSOCIATION AND EXCHANGE REACTIONS OF
THE ALUMINUM TRIALKYLS. Pt. 32 of Metal-
loorganic Compounds. [1961] 57p. 31 refs.
Order from SLA \$5.60 61-20455

Trans. of [Justus Liebig's] Ann[alen] der Chemie
(West Germany) 1960, v. 629 [no. 1/3] p. 53-89.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Alkyl radicals, Exchange reactions,
Dissociation.

See also 61-20454

(Chemistry--Organic, TT, v. 7, no. 1)

61-20455

I. Ziegler, K.
II. Kroll, W.-R.
III. Title: Metalloorganic...

184262

Office of Technical Services

Ziegler, Karl, Krupp, Felix, and Zosel, Kurt.
SYNTHESIS OF ALCOHOLS FROM ORGANO-
ALUMINUM COMPOUNDS. Pt. 40 of Metalloorganic
Compounds. [1961] 15p. 24 refs.
Order from SLA \$1.60

61-20480

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 629, no. 1-3, p. 241-250.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Alkyl radicals, Oxidation, *Alcohols,
Synthesis.

See also 61-20468

(Chemistry--Organic, TT, v. 7, no. 1)

61-20480

I. Ziegler, K.
II. Krupp, F.
III. Zosel, K.
IV. Title: Metalloorganic...

184273

Office of Technical Services

Ziegler, Karl, Krupp, Felix and others.
REACTIONS OF THE AL TRIALKYLS WITH CAR-
BON DIOXIDE AND SULFUR DIOXIDE. Pt. 41 of
Metalloorganic Compounds. [1961] 10p. 8 refs.
Order from SLA \$1.10 61-20463

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) [1960] v. 629, no. 1/3, p. 251-256.

DESCRIPTORS: *Aluminum compounds, *Alkyl radi-
cals, *Carbon dioxide, *Sulfur compounds,
*Dioxides, Chemical reactions, *Carboxylic acids,
*Sulfinic acids, Acids, Production, Metalorganic
compounds.

See also 61-20480

(Chemistry--Organic, TT, v. 7, no. 1)

61-20463

I. Ziegler, K.
II. Krupp, F.
III. Title: Metalloorganic...

184269

Office of Technical Services

Ziegler, Karl, Martin, Heinz, and Krupp, Felix.
ALUMINUM TRIALKYLS AND DIALKYL ALUMINUM
HYDRIDES FROM ISOBUTYL ALUMINUM COM-
POUNDS. Pt. 27 of Metalloorganic Compounds. [1961]
8p. 8 refs.

Order from SLA \$1.10

61-20450

Trans. of [Justus] Liebigs Ann[alen der] Chem[ie]
(West Germany) 1960, v. 629 [no. 1/3] p. 14-19.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Hydrides, *Alkyl radicals, *Butyl
radicals, Synthesis, Chemical reactions.

See also 61-20449

(Chemistry--Organic, TT, v. 7, no. 1)

61-20450

I. Ziegler, K.
II. Martin, H.
III. Krupp, P.
IV. Title: Metalloorganic...

184257

Office of Technical Services

Ziegler, Karl, Nagel, Konrad and Pfohl, Werner.
PYROLYSIS OF AL TRIALKYLS. Pt. 38 of Metal-
loorganic Compounds. [1961] 19p. 5 refs.
Order from SLA \$1.60

61-20462

Trans. of [Justus Liebig's] Annalen der Chemie (West
Germany) 1960, v. 629, no. 1/3, p. 210-221.

DESCRIPTORS: Metalorganic compounds, *Aluminum
compounds, *Alkyl radicals, Pyrolysis.

See also 60-20461

(Chemistry--Organic, TT, v. 7, no. 1)

61-20462

- I. Ziegler, K.
- II. Nagel, K.
- III. Pfohl, W.
- IV. Title: Metalloorganic...

154268

Office of Technical Services

Ziegler, Karl.
IMPROVED CATALYST FOR PRODUCING COPOLY-
MERS OF OLEFINS WITH HIGH MOLECULAR
WEIGHT. [1961] 7p.
Order from RIS \$23.00 RIS rept. 97137

Trans. of Belgian patent application 569 816, by Montecatini; Società Generale per l'Industria Mineraria e Chimica, Milan [Italy] filed 28 July 58 (priority: Italy, 29 July 57, no. 11 271).

DESCRIPTORS: *Catalysts, *Copolymerization, Ethylenes, Molecular weight.

(Chemistry: Organic, IT, v. 6, no. 5)

61-22973

- I. Ziegler, K.
- II. Patent Application (Belgium)
569 816
- III. RIS-97137
- IV. Research Information
Service, New York

Office of Technical Services

Ziegler, Karl.
PERFECTED CATALYST SYSTEM FOR POLYMERI-
ZATION OF α -OLEFINS OR OTHER HYDROCARBONS
WITH VINYL GROUPS. [1961] 11p.
Order from RIS \$28.00 RIS rept. 97136

Trans. of Belgian patent 572 726, by Montecatini.
Societa General per l'Industria Mineraria e Chimica,
Milan, Italy, filed 6 Nov 58 (priority: Italy, 7 Nov 57,
no. 6197).

DESCRIPTORS *Polymerization, *Catalysts, *Ethylene
Hydrocarbons, *Vinyl radicals, *Polymers.

(Chemistry--Organic, TT, v. 6, no. 5)

61-22974

I. Ziegler, K.
II. Patent (Belgium) 572 726
III. RIS-97136
IV. Research Information
Service, New York

Office of Technical Services

Ziegler, Karl.
NEW PROCESS FOR REGULATING THE MOLECULAR WEIGHT OF ETHYLENE-PROPYLENE AND ETHYLENE-BUTENE COPOLYMERS. [1961] 8p.
Order from RIS \$18.00 RIS rept. 97142

Trans. of Belgian patent application 593 590, by Montecatini Società Generale per l'Industria Mineraria e Chimica, Milan, Italy, filed 29 July 60 (priority: Italy, July 59).

DESCRIPTORS: Molecular weight, Propenes, *Butenes, *Ethylenes, Copolymerization, Metalorganic compounds, Polymers.

(Materials--Plastics, TT, v. 6, no. 5)

61-25005

- I. Ziegler, K.
- II. Patent Application (Belgium) 593 590
- III. RIS-97142
- IV. Research Information Service, New York

Office of Technical Services

Ziegler, Karl.

25 YEARS OF "STUDY OF TRIVALENT CARBON"
(25 Jahre "Zur Kenntnis des Dreiwertigen Kohlen-
stoffs"). 1958, 26p. 50 refs.

Order from SLA mi\$2.70, ph\$4.80

61-10062

Trans. of Angew[andte] Chemie (West Germany) 1949,
v. 61 [no. 5] p. 168-179.

(Chemistry--Organic, TT, v. 5, no. 7)

61-10062

1. Free radicals--Chemical reactions
2. Organic compounds--Chemical reactions
1. Ziegler, K.

Office of Technical Services

Ziegler, Karl.

PROCESS FOR PRODUCING A NEW TYPE OF
STRICTLY REGULAR POLYMERS FROM UNSATU-
RATED MONOMERS. [1961] 23p.

Order from RIS \$55.00

RIS rept. 97135

Trans. of Belgian patent application 585 563, 11 Dec 59
by Montecatini, Società Generale per l'Industria
Mineraria e Chimica, Milan.

DESCRIPTORS: *Polymers, Synthesis, Monocyclic
compounds, Ethylenes, Catalysts.

(Chemistry--Organic, TT, v. 6, no. 2)

61-22490

I. Ziegler, K.

II. Patent application (Belgium)
585 563,

III. RIS-97135

IV. Research Information
Service, New York

Ziegler, K.
THE THEORY AND PRACTICE OF ORGANOMETAL-
LIC SYNTHESIS OF HIGHER ALIPHATIC COMPOUNDS
FROM LOWER OLEFINS. [1961] 14p.
Order from ATS \$22.80

ATS-21N49G

Trans. of Angew[andte] Chem[ie] (West Germany)
1960, v. 72, no. 22, p. 829-835.

(Chemistry--Organic, TT, v. 5, no. 11)

61-22166

1. Metalorganic compounds--
Synthesis
2. Ethylenes--Chemical reac-
tions

- I. Ziegler, K.
- II. ATS-21N49G
- III. Associated Technical Serv-
ices, Inc., East Orange,
N. J.

Office of Technical Services

Ziegler, Karl and Holzkamp, Erhard.
ORGANOMETALLIC COMPOUNDS. XXII. MAGNE-
SIUM-ALUMINIUM-ORGANIC COMPLEX COMPOUNDS
(Metallorganische Verbindungen. XXII. Magnesium-
Aluminium-Organische Komplexverbindungen). [1960]
[71] p. 12 refs.

Order form: SFA no. \$1.80, ph\$1.80 61-10487

Trans. of [Justus] Liebigs Annalen der Chemie]
(West Germany) 1967, v. 605 [no. 1/3] p. 93-97

A successful attempt to make magnesium-aluminum
organic complex compounds is reported. This work is
in outgrowth of research on aluminum organic com-
pounds and on alkylaluminum-tetraalkyl complexes.
Preparation and properties of "complete" and
"partial" complexes, $Mg(AlR_4)_2$ and $RMg^+(AlR_4)_2$, are
described. Results show that the organic magnesium-
aluminum compounds form less stable complexes than
the corresponding alkylaluminum compounds. How-
ever, interesting changes in solubility relationships
(Chemistry - Organic, ET, v. 5, no. 8) (over)

61-10487

1. Metalorganic compounds --
Synthesis
2. Aluminum compounds --
(Organic) -- Synthesis
3. Magnesium compounds --
(Organic) -- Synthesis
4. Complex compounds --
Synthesis
- I. Ziegler, K.
- II. Holzkamp, E.
- III. Title: Magnesium...

Office of Technical Services

Ziegler, K., Häffner, F., and Grimm, H.
STEREOCHEMICAL STUDIES. II. *cis*-1,2-DIMETH-
YLETHYLENE FROM BUTADIENE-(1,3). [1963]
20p 25refs
Order from SLA \$1.60 TT-64-10118

Trans. of [Justus Liebig's] Ann[alen der Chemie]
(Germany) 1937, v. 528, p. 101-113.
Another trans. is available from SLA as AL-842, 20p

DESCRIPTORS. *Stereochemistry, *Butenes,
Ethylene derivatives, Methyl radicals, Synthesis
(Chemistry), *Butadienes, Hydrogenation, Catalysts
Metalorganic compounds, *Ziegler catalysts.

(Chemistry--Organic, TT, v. 11, no. 5)

TT-64-10118

- I. Ziegler, K.
- II. Häffner, F.
- III. Grimm, H.
- IV. Title: *cis*-1, 2-
[Dimethylethylene ...
- V. SLA-AL-842

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TT-64-10117

Ziegler, K., Jakob, L., Wolthan, H., and Wenz, A.
THE FIRST PRODUCTS OF THE ACTION OF
ALKALI METALS ON BUTADIENE. [1963] 30p 13refs
Order from SLA \$2.60 TT-64-10117

I. Ziegler, K.
II. Jakob, L.
III. Wolthan, H.
IV. Wenz, A.
V. SLA-AL-844

Trans. of [Justus Liebig's] Annalen [der Chemie]
(Germany) 1934, v. 511, p. 64-84.
Another trans. is available from SLA as AL-844. 30p.

DESCRIPTORS: *Butadienes, *Alkali metals, Chemical
reactions, Hydrocarbons,

(Chemistry--Organic, TT, v. 11, no. 5)

Office of Technical Service

Ultrasonic Measurement of Section Size of Gray-Iron
Castings, by R. Ziegler, R. Gerstner

GERMAN, per, Glaserei, Techn Wissensch Beihfte,
Sept 1956 No 16, Sep 1956, pp 829-835.

Brutcher No 3840
\$9.85

42,895

Sci - Min/Metals
Jan 57 CTS

Investigations of the Carbon Dioxide Process (for
Foundries, by R. Ziegler, G. Essner.

GERMAN, per, Giesserei-Nachrichten, No 2, May 1955,
pp 5-12.

Henry Bratcher Tr 3696

Sci - Chemistry, Minerals/metals

May 1956

34,896

\$ 6.60

ZIEGLER F.

Stahl Und Eisen, vol. 61, 8 figures, 1 table, 1200 words; 1941.

Influence of Oxygen Content upon Sensitivity to Overheating and Abnormality of Steel.

Brutcher Trans. Order No. 1024, \$1.20

113483

The Velocity of Sound as Characteristic Value of
the Quality of Cast Iron, by R. Ziegler, R. Gerstner.
UMCL

GERMAN, rpt, from 24th International Foundry Congress,
1957, Aug 1957, pp 133-157.

MSI 1496

Sci - Phys
Mar 60

(14 15a.01.)

111, 158

Regarding the Protective Action of Pure Proteins
in Photodynamic Phenomena, by O. Jirovec, Z.
Ziegler, 16 pp.

GERMAN, per, Z ges Exptl Med, Vol XC, 1933,
pp 651-660.

S.I.A. Tr 57-386

Sci - Chemistry
Jun 57/CTS

48,826

Zleher, Luis M. and Flecher, Edmundo.
EFFECT OF METHOXYDONE UPON THE PSYCHO-
MOTOR ACTIVITY OF THE RAT. [1962] 4p. 11 refs.
Order from SLA \$1.10 62-14352

Trans. of As[ociacion] Med[ica] Argen[tina, Buenos
Aires]. Res[ista] 1960, v. 74, no. 9, p. 531-533.
Another trans. is available from ATS \$5.60 as
ATS-OSNS1SP [1961] 3p.

DESCRIPTION: *Nervous system; *Neuromuscular
transmission; *Drugs.

The drug 5-(4-methoxyphenoxymethyl)-2-oxazolidone
reduces spontaneous motor activity in white rats. In
a statistically significant way up from 50 mg/kg of
body weight when administered intraperitoneally. The
maximum effects are reached practically with doses
of 100 mg/kg of body weight. The drug proves to be
(Biological Sciences--Pharmacology, TT, v. 8, no. 6)
(over)

62-14352

1. Title: Methoxadone
1. Zleher, L. M.
- II. Flecher, E.

Office of Technical Services

(2551-D)

Ferrromagnetic Transmitter Antenna for Emergencies at Sea, by K. Baur, G. Elehm, 38 pp.

GERMAN, per, Telefunken-Zeitung, Vol XXXI, No 121, Berlin, Sept 1958, pp 150-161.

JPRS L-1625-D

Sci - Biol; Geophys, soil science
Apr 59

86,747

The Development of the Calcium Cyanamide
Process, Albert R. Frank on his 80th Birthday,
by K. Ziecke, 9 pp.

GERMAN, per, Chemie Ingenieur Technik, Vol XXIV,
1952, pp 609, 610.

S.L.A. Tr 1189/1956

EE - Germany
Economic
Sci - Chemistry
Oct 56 CTS

40, 086

(DC-5037)

Development of Health Service in the Bialystok
Wojewodztwo, by Krystyna Zielanska, 4 pp.

POLISH, np, Sluzba Zdrowia, Vol XII, No 45,
6 Nov 1960, p 3.

JPRS 6820

EEur - Poland

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The Varicade, a New Semiconductor Component, by
G. Zielasek, 4 pp.

GERMAN, per, Elektronische Rundschau, Vol XIII,
No 10, 1959, pp 378-381.

USASIA Tr-1112

Sci - Electronics
Mar 61

141, 414

The Effect of Various Etching Agents on Germanium,
II. Physical Analysis, by G. Zielasek, 18 pp.

GERMAN, per, Z Metallkunde, Vol XLVI, No 3, Mar 1955,
pp 229-233.

SLA 57-~~1256x~~ 1356

May 55

63,840

The Time-Temperature Characteristic in Electric
Contacts, by M. Kohler, G. Zielasek.

GERMAN, per, Abhandlungen der Braunschweigischen
Wissenschaftlichen Gesellschaft, Vol III, 1951.

A.E.R.E. Harwell Tr 635
OT/1737

Sci - Electricity

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The Effect of Various Etching Agents on Germanium,
by G. Zielasek, 18 pp.

GERMAN, per, ² Metallkunde, Vol XLVI, No 3, Mar 1955,
pp 229-233.

SLA Tr # 57-590

Sci - Minerals/Metals
Sep 57

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(NY-10)

From the Laboratory of General Work
Organization Problems, by Jan
Zieleniewski, 9 pp.

POLISH, per, Nauka Polska, Vol ~~IX~~,
No 1 (33), Jan/Mar 1961, pp 109-114.

JPRS 11937

Sci - Misc

179.107

Jan 62

The Analysis of Primary War from Siropelele Mhedan,
by J. Fortal, R. Zieleniewski, J. Grudzien, 29 pp.
POLISH, per, Prace Glownego Instytutu Gornictwa,
No 111, 1962, pp 1-20. 2024402

OTS 60-21366
PB-463

101 - Chem

Dec 6

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Investigations on the Determination of the Integral
Dose in X-Ray Diagnostics, by E. Zieler, 31 pp.

GERMAN, per, Fortschritte Gebiete Rontgenstrahlen
und Nuklearmed, Vol XCIV, 1961, pp 248-260.

AERE, Harwell
NP Tr-684

167, 478

Sci
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Recovery of Zinc From the Blast Furnace Filter
Dust, by H. Zieler.

GERMAN, per, Stahl und Eisen, Vol LXXV, No 15,
1955, pp 975-978.

CRL/T 1078

Sci- M & M
Mar 63

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Preparation of Glycol by Hydrolysis of Ethylene
Chloride, by H. Bahr, H. Zieler

GERMAN, per, Zeitschrift Angew Chem, Vol XLIII,
1930, pp 286-289.

S.L.A. Tr Pool

Scientific - Chemistry
CTS/DEX

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Industry of CEMA Countries After 1960, by Andrzej
Karpinski, Bogumila Zielinska, 18 pp.
POLISH, per, Gospodarka Planowa, No 1, 1964, pp 7-15.

JPRS 23251

EE-Sov Bloc
Econ
Feb 64

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SOME PROBLEMS IN POLAND'S ECONOMIC DEVELOPMENT IN
1956-1961 IN RELATION TO OTHER CEMA COUNTRIES, BY
ANDRZEJ KARPINSKI, BOGUMILA ZIELINSKA, 19 PP.

POLISH, PER, GOSPODARKA PLANOWA, NO 6, 1962,
PP 1-11.

JPRS 15533

EUR - POLAND
ECON
OCT 62

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(2009-H)

Poland's National Income and That of Selected
Capitalist Countries, by Bogumila Zielinska, 16 pp.

POLISH, per, Gospodarka Planowa, No 1-2, Warsaw,
1959, pp 60-64.

JPRS1641-H

Econ - Poland

Econ - Finance, Natl Income

Jun 59

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Zielinski, E.
SECRETANINE, COLORANT DE LA BETTERAVE
A SECRET (Betanine - the Beet Pigment), 11p., refs.
CNRS-II 163.
Order from OIS, EIC or CNRS SI, 10 - TT-62-28836

Trans. Inst. High. Ind. Pol. (Poland)
1960, v. 14, no. 4, p. 208-212.

DESCRIPTIONS Plants (Botany), Sugar use, *Organic
pigments, Solvent extraction, Chemical precipitation.

Biological sciences - Biochemistry, TT, v. 11, no. 9)

TT-62-28836

I. Zielinski, E.
II. CNRS-II 163
III. Centre National de Recherche
Scientifique, Paris

Office of Technical Services
European Translation Centre

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Statistical Method of Computing Low-1.
by M. Zielinska, 18p.
POLISH, per, Przegląd Geofizyczny, Vol 8, No 1/2,
1968, pp 75-87.
*OTS:TT03-98092
PL 480

M. Zielinska

EE-Poland
Sci/Earth Sci & Astron
May 68

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Statistical Methods of Defining Low Water
Stages-II, by Maria Ziolkowska,
POLISH, per, Przegląd Geofizyczny, Vol IX(XVII).
No 2, 1964, pp 109-110.
CPSTI TT 65-50385

Sci-
Jul 67

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Oil Transport in the Sahara, by A. Zielinski.
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OFIA 1998

Sci - Engr

Feb 59

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Operations of Series EU35 Electric Locomotives in Their First Year by Usage by the PKP,
by Andrzej Zielinski, 3 pp.

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ACSI I-2947
ID 2240817

MBur - Poland
Econ
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Electric Locomotives of the Polish State Railways
by Andrzej Szulinski, 13 pp.

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p. 3. Warsaw, 1951, pp 225-230.

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EFOR - Poland
Econ - Trans - RR (Locomotives)
Jan 68

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Adsorption of Nitrogen, Neon and Hydrogen by
Silica Gel and Aluminum Oxide at the Temperature
of Liquid Nitrogen and at High Pressures, by A.
Gzemplinski, B. Zieliński.

FOURTH, per, Przemysł Chemiczny, Vol. XXVIII.
Kraków, 1959, pp. 87, 88.

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ENR, 837, No. 309

118, 820

Sci - Chem

Jun 60

IMPORTANT AND DIFFICULT PROBLEMS FACING
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ZIELINSKI, 8 PP.

POLISH, PRL, SZKOLA ZAMKOWA, NO 2, 1963,
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(NY-1691).

Utilisation of Fuels for Power Generation and Technol-
ogical Purposes (Poland), by Edmund Zielenki, 18 pp.

POLISH, per, Przegląd Elektrotechniczny; Vol XXXIV,
No 2/3, Warsaw, 1956, pp 188-192.

US JPRS/NY-856

EEur - Poland

Econ - Electric power

76, 7.20

The Production of Metallurgical Coke From Non-Coking Coals According to the Method of the Institut für Chemische Kohleveredlung Zabrze, by J. Hadziakiewicz, H. Zielenki.

RUSSIAN, per, Bergakademie, Vol X, 1958, pp 19-25.

OTB 59-22339

Bc1 - N/M
Feb 63

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Scientific and Technological Development Trends ¹⁶
in Chemical Processing of Coal, by Henryk Zielinski,
16 pp
POLISH, per, Koks-Gaz-Gas, Vol 9, No 6, Nov-Dec
1964, pp 185-192.
JPRS 29736

EE-Poland
Econ
Apr 65

279,094

Operation of the ATS Prime Mover in the Winter
Tide, by Jan Zielinski, 11 pp. UNCLASSIFIED

POLISH, per, Przegląd Samochodowy, No 2, 1958
pp 30-38.

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EE - Poland
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Jul 60

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(NY-4679)

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JPRS 5756

REur - Poland
Econ
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(EC-6021)

Geological Problems in Oil Exploration Under the
Five-Year Plan, 1961-1965, by Jozef Jakub Zielinski,
12 pp.

POLISH, per, Nafta, Vol XVII, No 2, 1961, pp 33-38.

JPRS 8711

EEur - Poland

Econ

Aug 61

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Electric Braking of A. C. and D. C. Motors,
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FRENCH, par, Revue Generale de L'Electricite,
Vol 69, No 1, 1960, pp 19-35.
GB 96

J. ZIELINSKI

Bcl -
Aug 67

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BY J. G. ZIELINSKI, 8 PP.

POLISH, PER, ZYCIE GOSPODARSTWA, NO 10,
10 MAR 1963, P 2.

JPRS 18927

LEARN - POLAND
ECON .
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